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CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR APPLICATION NO. FILING DATE 8371-105 2653 07/19/2000 09/618,867 Jack Van Oosterhout **EXAMINER** 02/27/2004 7590 20575 MARGER JOHNSON & MCCOLLOM PC PHAM, THIERRY L 1030 SW MORRISON STREET **ART UNIT** PAPER NUMBER PORTLAND, OR 97205 2624

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

		App	olication No.	Applicant(s)		
-		09/	618,867	OOSTERHOUT E	OOSTERHOUT ET AL.	
•	Office Action Summary	Exa	miner	Art Unit		
		Thie	erry L Pham	2624		
	The MAILING DATE of this commu	nication appears	on the cover sheet	with the correspondence ac	ddress	
Period for Reply						
THE - Exte after - If the - If NO - Failu - Any (ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provision. SIX (6) MONTHS from the mailing date of this come period for reply specified above is less than thirty (1) period for reply is specified above, the maximum some to reply within the set or extended period for replacely received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). munication. 30) days, a reply within tatutory period will apply y will, by statute, cause	In no event, however, may the statutory minimum of the and will expire SIX (6) Months the application to become	a reply be timely filed hirty (30) days will be considered time DNTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).		
1)	Responsive to communication(s) filed on					
2a) <u></u> □	This action is FINAL .	2b)⊠ This actio	n is non-final.			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)🖂	4) Claim(s) 1-19 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)□	Claim(s) is/are allowed.					
6)🖂	Claim(s) <u>1-19</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers					
9) The specification is objected to by the Examiner.						
10)⊠	0) \boxtimes The drawing(s) filed on <u>19 <i>July 2000</i></u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.						
	ce of References Cited (PTO-892)			w Summary (PTO-413) Paper No		
	ce of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO-1449)		5) L Notice of Other:	of Informal Patent Application (PT	O-152)	

Art Unit: 2624

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: Lack of brief description of Fig. 4. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 1. Claims 1-4, 9-19 are rejected under 35 U.S.C. 102(a) as being anticipated by Spohn et al (JP 411296333A).

Regarding claim 1, Spohn discloses s method for multicast document printing (parallel printing), the method comprising: (a) receiving document data to be printed at a host (network, Fig. 4), wherein said document data (print jobs, Abstract and page 4, paragraphs11-12) includes a number of documents to be created from the document data; (b) dividing (dividing a print job into multiple small portions, Abstract and page 4, paragraphs 11-12) the number of documents to be created into at least two batches for at least two corresponding, separate printers (distributed to network printers for parallel processing, Abstract, page 4 paragraphs 11-12 and page 5, paragraphs 15-16); (c) formatting the document data into a print job (converting print data into raster data (PDL) before printing, RIP, page 2, paragraph 6); (d) embedding information for (embedded via using print server by dividing print job into smaller portion, paragraph 4, page 1 and paragraph 15, page 5) distribution of the batches to the corresponding printers into the print job; and (e) transmitting (transmitting via network such as LAN, Fig. 4, page 6) the print job to the at least two separate printers connected by a common network to the host.

Art Unit: 2624

Regarding claim 2, Spohn further discloses the method of claim 1, wherein the host is a printer (printer, Fig. 4, paragraphs 21-22, page 6).

Regarding claim 3, Spohn further discloses the method of claim 1, wherein the host is application software (printer's driver) resident in a printer (it is known in the art that printer driver software which installed in the printer (fig. 4, paragraphs 21-22, page 6) for processing input data, i.e., converting input data into PDL data).

Regarding claim 4, Spohn further discloses the method of claim 1, wherein the host is a computer (client computer, fig. 4, Abstract and paragraphs 21-22, page 6).

Regarding claim 9, Spohn further discloses the method of claim 1, wherein the transmitting the print job to at least two separate printers (Abstract and paragraphs 21-22, page 4) includes reception and temporary storage at a store-and-forward device (printer sever stores and forwards print data to printer, page 2).

Regarding claim 10, Spohn further discloses a computer readable medium (CD-ROM, paragraph 16, page 5), said medium containing software code comprising:

- (a) code operable to receive document data (print jobs, Abstract and page 4, paragraphs11-12) to be printed at a host (network, Fig. 4), wherein said document data includes a number of document data to be created from the document data;
- (b) code operable to divide (dividing a print job into multiple small portions, Abstract and page 4, paragraphs 11-12) the number of document to be created into at least two batches for at least two corresponding, separate printers;
- (c) code operable to format (converting print data into raster data (PDL) before printing, RIP, page 2, paragraph 6) the document data into a print job;
- (d) code operable to embed (embedded via using print server by dividing print job into smaller portion, paragraph 4, page 1 and paragraph 15, page 5) information for distribution of the batches to the corresponding printers into the print job; and

Art Unit: 2624

(e) code operable to transmit (transmitting via network such as LAN, Fig. 4, page 6) the print job to the at least two separate printers connected by a common network to the host.

Regarding claims 11-12, Spohn further discloses the medium of claim 10, wherein the computer readable medium is read by a computer/printer (it is known in the art that all computers/printers of Fig. 1 have some type of memory, i.e., RAM, HDD).

Regarding claims 13-14, Spohn further discloses the medium of claim 10, wherein the medium is a compact disc/diskette (CD-ROM, paragraph 16, page 5).

Regarding claim 15, Spohn further discloses the medium of claim 10, wherein the medium is a network-accessible file (network such as LAN, Fig. 4, page 6).

Regarding claim 16, Spohn discloses a network device (network, Fig. 4), comprising: (a) a port operable to connect to a network and receiving document data to be converted into hard copy output with a predetermined number of documents to be created (client computer transmits print jobs to be printed by printers, Fig. 4, page 4); (b) a processor in communication with the port, operable to format the document data into a print job and to assign batches to at least two printers (dividing a print job of 60-pages into three 20-pages using parallel processing, page 6) wherein the sum of documents to be created within each batch is substantially equal to the number of documents to be created; and to (c) a communications port operable to transmit the batches to printers connected to the network device by a common network (communicating via a network such as LAN or WAN, Fig. 4, page 1).

Regarding claim 17, Spohn further discloses the network device of claim 16, wherein the network device is a computer (client computer, fig. 4).

Regarding claim 18, Spohn further discloses the network device of claim 16, wherein the network device is a printer (printer, fig. 4).

Art Unit: 2624

Regarding claim 19, Spohn further discloses the network device of claim 16, wherein the processor is a raster image processor (RIP, page 3).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spohn as described in claim 1 above, and in view of Yokoyama (U.S. 6166826).

Regarding claims 5-8, Spohn does not explicitly disclose wherein the printer is a multi-functional printer comprising of fax, copy, and scan functions.

Yokoyama, in the same field of endeavor for printing, discloses a multi-functional printer comprising of fax, copy, and scan functions (col. 14, lines 26-38).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify Spohn as per teachings of Yokoyama because of a following reason: to reduce hardware costs and time by implementing parallel processing (Spohn, paragraphs 10 & 15)

Therefore, it would have been obvious to combine Spohn with Yokoyama to obtain the invention as specified in claims 5-8.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents/publications are relevant to applicant's disclosure invention.

(1) U.S. 2002/0101604 A1 to Mima et al, discloses a method/apparatus for parallel processing, wherein the method/apparatus divides a print job into smaller groups and then transmits to plurality of printers via network to be printed to reduce time and cost.

Art Unit: 2624

(2) JP 405073232A to Yamamoto, disclose a method/apparatus for parallel processing, wherein

the method/apparatus divides a large print job into smaller batches/groups and then transmits to

plurality of printers via network to be printed to reduce time and cost. Translation copy is

provided.

(3) JP 411296333A to Spohn, which used for prior art rejections; a translation copy is

attached/provided along with original Japanese patent.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thierry L Pham whose telephone number is (703) 305-1897. The

examiner can normally be reached on M-F (9:30 AM - 6:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David K Moore can be reached on (703)308-7452. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703)305-3900.

Thierry L. Pham

January 21, 2004

DAVID MOORE SUPERVISORY PATENT EXAMINER

Page 6

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Jard Klane